

FIG. 1

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tumina							.79	-																X											6.0					9.0				7.2	
verage	e Blue	e Ligi	t				.84																	Y						0.	83				4.7					1.8				8.3	
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440		7.7	7								69					7.								T	(28	ю.	31	5)							0.0					a				0.78	
450		10.0	5								70					7.									(31										0.0					8:				3.96	
460		11.7	4								7	10				8.	28								Ol				Α						0.0	0			F	8:	55			3.96	3
470		12.7	6								72	20				8.	72	:						_		_			_	_	_	_		_	_	_	_	_	_		_		_		_
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490		13.2	7								74	60				9	67	•												R	ed			١	/io	let									
500		8 0	5								7:	50				10	.15	5						F	AC	TC	R			0.	73			-	0.8	3									
510		8 4	•								76	50				10	6	3						T	his	İs	8		SP	E	JIF	IC	:												
520		8.8									7					11													ŧ	A	IL,			1	FA	IL									
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	Ë	40	Щ	11	П	Ц	1	L	Ц	1	1	L	П	1	_	1	1	L	L	Ц	1	1	L	Ц	1	1	L	Ц	Ц	1	L	Ц		1	L	Ц	Ц	1	T	L	Ц				
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FIG. 2

Wavelength - nm

For Test Definition - ANSI 287.1 COLTS Control Number Z-BZS031601-02-01

	Lens .	Sample Grou	up Desc	Tripe	on
Lens :	Samples	Substrate (Lens	s Material)	Coat	ings (Hard Coat, AR, etc.)
One Lens S	ample Group	Lens Material:	unk	Type:	Polarized
Manufacturer:	Bayz	Index of Refraction:		Comm	ents:
Lens Type:	FSV	Lens Density:		Delaste	
Requested By:	DR. Ishak	Report valid thru:	09/16/01	Polari	red / Grey

Test Number	Definition	Pass/Fail
Z-BZ\$031601-02-01-01	28	Pass
Z-BZS031601-02-01-02	34	Pass
Z-BZS031601-02-01-03	34	Pass

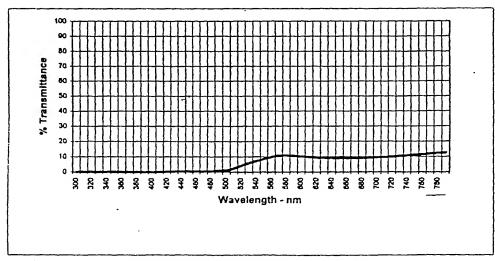
ANSI Z87.1 Requirement Pattern 20 in both directions

FIG. 2A

									_	
		TRANS	×	y		ANSI Z80	.3			
i. minata	C Photopic	9 91%	0.2685	0.3050		-	Red	Yellow	Green	D65
k minate	D65	9.91%				TRANS	7.43%	8.52%	10.79%	9.91
Limnale		9.27%				TEST	Fail	Pass	Pass	
	C Scotopic	12.34%				X		7.41	1.16	8.92
	Blue Light	8.46%				Y	0.81	5.83	2.34	10.4
."VA		0.00%				Z		0.02	2.75	13.5
,VB		0.00%				×		0.5590	0.1854	0.270
						y		0.4394	0.3741	0.317
nm	%T		nm	%T		Chromitic	ty	Pass	Pass	Pass
300	0.00		550	10.27			•			
310	0.00		560	9.98		This is a	GENERAL	L PURPOSE	LENS	
320	0.00		570	9.46						
330	0.00		580	8.67	•	CEN 94				
340	0.00		590	8.01			Red	Yellow	Green	Blue
350	0.00		600	7.56		TRANS	7.39%	8.50%	10.78%	11.64
350	0.00		610	7.19		Q	0.75	0.86	1.09	1.17
370	0.00		620	8.88		TEST	Fail	Pass	Pass	Pass
380	0.00		630	8.75						. 033
390	0.00		640	7.02						
00	0.05		650	7.68						
10	0.95		660	8.53						
20	3.41		670	9.38		This is a	FILTER C	ATEGORY :	3	
30	6.13		680	10.17				Max	Test	Delta
40	9.33		690	10.82		T(280-315)	0.00	Pass	0.99
50	12 37		700	11.37		T(316-350)	0.00	Pass	4.96
60	14 65		710	11.90		SOLAR U	VA	0.00	Pass	4.96
70	16.06		720	12.38	-					
80	16 74		730	12.87		AUSTRAL	IAN STANE	DARDS		
90	16 69		740	13.37			Red	Violet		
00	10.41		750	13.84		FACTOR	0.73	0.91		
10 20	10.92		760	14.31	•	This is a	GENERAL	. PURPOSE	SUNGLASS	S
30	11.36		770	14.77			FAIL	PASS		
40	11.13 10.82		780	15.15						
40	10.02		790	15.47				_		
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	32 80	2 2 2 2	8 3 5	\$ \$ \$ \$	3 8	8 8 8	3 8 8	8 8 8	8 8	
				Wave	elength ·	- nm				

FIG. 3

		TRANS	×	y	ANSI ZBO	.3			
Numinate	C Photopic	7.66%	0.4803	0.4827		Red	Yellow	Green	D65
luminate	D65	7.61%			TRANS	9.14%	9.79%	6.31%	7.61%
luminata	A	8.52%			TEST	Fail	Fail	Fail	
luminate	C Scotopic	2.96%			×		9.11	0.75	7.90
Average I	Blue Light	0.34%			Y	0.99	6.59	1.37	8.04
UVA	-	0 00%			Z		0.02	0.13	0.59
JVB		0.00%			×		0.5758	0.3352	0.4778
					у		0.4232	0.6063	0.4866
nm	%T		nm	%T -	Chromitica	ity	Pass	Pass	Pass
300	0.00		550	8.54					
310	0 00		560	9.83	This is a	SPECIAL	PURPOSE	LENS	
320	0.00		570	10.59			~		
330	0.00		580	10.73	CEN 94				
340	0.00		590	10.49		Red	Yellow	Green	Blue
350	0.00		600	10,15	TRANS	9.57%	9.76%	6.31%	4.38%
360	0.00		810	9.77	Q	1.26	1.28	0.83	0.58
370	0.00		620	9.46	TEST	Pass	Pass	Pass	Fail
380	0.00		630	9.20					
390	0.00		640	9.00					
400	0.01		650	8.87					
410	0.11		660	8.83				•	
420	0.30		670	8.86	This is a	FILTER C	ATEGORY	4	
430	0.37		680	8.98			Max	Test	Delta
440	0.38		690	9.15	T(280-315	5)	0.00	Pass	0.76
450	0.36		700	9.38	T(316-350)	0.00	Pass	3.81
460	0.35		710	9.68	SOLAR U	VA	0.00	Pass	3.81
470	0.36		720	10.01					
480	0 48		730	10.37	AUSTRAL	IAN STANI	DARDS		
490	0.88		740	10.77		Red	Violet		
500	1.09		750	11.17	FACTOR	1.20	0.04		
510	2.33		760	11.56	This is a	SPECIFIC			
520	4.19		770	11.97		FAIL	FAIL	•	
530	5.87		780	12,31					
540	7.23		790	12.58					



O-VIA012901-04-01 (Amber Mirror)

FIG. 4

12. 12. 13. 14.	Lens S	sample Grou	ip Desc	ripti	on about the last of the
	Samples	Substrate (Lens			ings (Hard Coat, AR, etc)
One Lens S	Sample Group	Lens Material:	unk	Type:	Polarized
Manufacturer:	Bayz	Index of Refraction:		Comm	ents:
Lens Type:	FSV	Lens Density:		Deleste	red / Amber
Requested By:	DR. Ishak	Report valid thru:	09/16/01	Polariz	ted / Ainber .

Test Number	Definition	Pass/Fail
Z-BZS031601-01-01-01	20	Pass
Z-BZS031601-01-01-02	34	Pass
Z-BZS031601-01-01-03	34	Pass

ANSI Z87.1 Requirement Pattern 20 in both directions

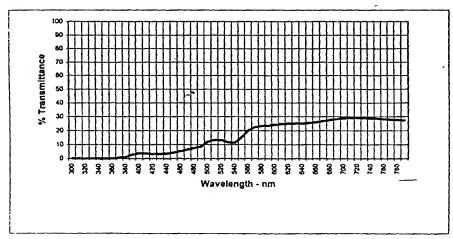
FIG. 4A

				T	RA	NS	3			×					Y								AN	S	Z	80	3																		
uminate	C Photop	IC			9.9	19	6		0.4	78	36		().4	82	2												1	Re	d			١	'el	ю	W			G	re	en	1		D	85
uminate	D65				9.8	5%	6															٠	TR	A	NS	;		11	1.7	6	χ,		1	2.5	6	%			8.	24	1%	,		9.8	35%
uminate i	A			1	10.9	999	%															٠	TE	Si	ī			F	8	33				Pø	33				P	8	53				
uminete	C Scotop	ic		:	3.9	4%	6															:	X										1	11.	87	7			C	9.9	7			10).15
verage E	lue Light			- 1	0.5	19	6															•	Y						1.2	28				8.	58				1	.7	8			10	1.41
IVA					0.0	0%	6															4	z											0.1)2				c	1.1	9			0	.84
IVB					0.0	0%	6									÷						,	ĸ										٥	.5	75	8		-	0.	33	08	3		0.4	742
																-							,							•				4							54				1883
ណ	%T									m	1			9	T		_						Ch	т	mi	tici	ity						1	Pø	33				P	8	18			P	233
300	0.00								_	50		Ī		11																															
310 -	0.00									60				12								•	ħ	3	3	8	(3E	NE	R	Αi	F	וטי	RF	O	S	Εl	E	N	S					
320	0.00									70				13		_						_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		
330	0.00									80				13								-	CE	N	9.	ı						_						_							
340	0.00								-	90				13													F	₹ø¢				1	ol	-				G	-				В	lue	
350	0 00									00				12	•								TR	N	NS	•				79				2.5							*	•			77%
360 370	0.00									10				12		_							Q —	_	_					25				1.						8.6				-	.59
380	0.00									20 30				12 11									ΤE	5	ŧ			•	.8	85				Pø	55	•			۲	2:	3.3			•	ail
390	0.00									40				11																															
400	0.00								_	50				11																															
410	0 17									60				11																															
420	0 44									70				11									Th		ie			IL.	TF	P	c	Δ7	F	3	ac	v	3								
430	0.55									80				11	-								•••	•	-	•	•		•	•••	~			M			•		1		ď			D	elta
440	0.55									90				11									T(2	284	o-:	115	5)							0						2:				_	98
450	0 53									00				11									T(:											0.0					-	2				-	.92
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470	0.53								7	20)			12	.8	5						•	_	_	_	_	_	_	_	_	_	_		_		_	_	_	_	_	_	_	_	_	_
480	0.72								7	30)			13	.0.	4							ΑU	S	TR	A	LIA	N	SI	ΓA	NI	DΑ	RC)5											
490	1,28								7	40)			13	.4	5												1	Re	be			١	Vi.	ke	ŧ									
500	1.52								7	50)			13	.8	4						(FΑ	C.	TC	ĸ			1.1	19				0.	05										
510	3.20								7	80)			14	.2	3						•	Th	3	is	8	C	3E	NE	ER	A	F	U	RF	О	SE	Ξ \$	SU	IN	G	LA	S	s		
520	5.63								7	70)			14	8	2												F	A	L				FA	JŁ,										
530	7,81								7	80)			14	.9:	2																													
540	9.52								7	80)			15	.10	₿																				-									
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	90	Ш	44	Ц	Ц	Ц	1	1	Ц	4	1	Ц	Ц	1	1	1	L	L	Ц	1	4	1	1	L	L	Ц	4	1	L	Ц	L	Ц	4	1	Ļ	L	Ļ	L	L	L	Ц	Ц	l		
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	2 70	╁	+1	+	H	H	+	+	H	+	+	Н	Н	+	+	╁	+	╁	Н	+	╅	+	+	╁	╁	Н	+	╁	t	Н	Н	Н	+	+	╁	╁	╁	╁	H	╁	Н	Н			
4	60	-H	44	1	H	Н	╁	╀	H	4	+	Ш	Ц	4	4	4	Ļ	╀	Н	4	4	4	4	L	╄	Ц	4	+	Ļ	П	Н	Ц	4	4	ļ	Ļ	Ļ	Ļ	Ļ	L	Н	H	l		
•	50 L	Ш	Ш		Ц	Ш	L	L	П		1			_[1	1	L	1	H	1	1	1	1	1	Ĺ	l	1		L	l			1	1	ĺ	l	L	1	ļ	L	Ш				
	2 ~ 1	П	П	T	П	Π	Т	Τ	П	T	T	-	٦	٦	T	T	Τ	Τ	П	٦	7	T	T	Τ	T	П	1	T	Γ	П		П	7	T	T	T	T	Т	Γ	Γ					
j	70 60 50 40 30	++	╫	H	H	H	+	t	H	+	+	Н	Η	+	+	t	t	t	Н	+	+	+	+	t	t	Н	+	+	t	۲	H	Н	+	+	+	t	t	t	t	t	Н	Н			
ŀ	_ 30 	44	44	4	11	H	+	1	H	+	4.	Ц	Ц	4	1	ļ	ļ	L	Ц	1	4	4	1	Ļ	1	Ц	4	1	Ļ	\perp	H	Ц	4	4	1	ļ	1	L	L	1	Ц	Ц			
•	20	Ш			L	IJ	_	ĺ	IJ	1	1			-	1	1	1	l	U		1	1	1	1	1	Н	١	}	1	П		H	1	1	1	1	١	١	i	ŀ		۱			
]	H	П	Т	Π	Π	T	T	Π	T	T		П	7	T	T	T	Г	П	1	1	I	I	I	Γ		1	T	Τ			П	1	T	T	I	I	I	L	Γ		F	ŀ		
	10 }	++	+	†	H	H	+	+	H	t	+	Н	Н	+	+	$^{+}$	t	t	H	+	1	Ŧ	Ŧ	F	F	F	7	Ŧ	۲		Ħ	Ħ	7	Ŧ	F	F	F	F	F	۲	Н	Н			
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	٠١	 	44	, 동	욁	Н	3	8	++	+	3	-	8		-	8	7	8	Н	3	+	+	8	+-	8	Н	8	3	+	8	Н	닭 왕	-\ -\	4	₽	Ļ	₹	L	L	L	Ц	Н			

FIG. 5

Wavelength - nm

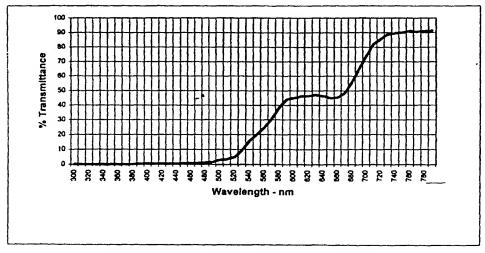
		TRANS	×	y	ANSI Z60	.3			
luminate	C Photopic	17.80%	0.4369	0 4180		Red	Yellow	Green	D65
iuminate	D65	17.68%			TRANS	25.38%	22.35%	14.76%	17.68%
luminate	A	19.69%			TEST	Pass	Pass	Pass	
turninate	C Scotopic	10.41%			×		22.21	1.72	19.23
Average !	Blue Light	4.90%			Y	2.76	15.27	3.20	18.69
JVA		0.00%			2		0.03	1,30	6.12
JVB		0.00%			×		0.5920	0.2768	0.4367
					y		0.4072	0.5137	0.4244
nm	%T		nm	%T ·	Chromitici	ty	Pass	Pass	Pass
300	0.00		550	15.34					
310	0.00		560	20.08	This is a	GENERAL	. PURPOSE	LENS	
320	0.00		570	22.41					
330	0.00		580	23.37	CEN 94				
340	0.00		590	23 60		Red	Yellow	Green	Blue
350	0 00		600	24.11	TRANS	24.83%	22.41%	14.63%	13.539
360	0.12		610	24.62	Q	1,40	1.27	0.83	0.77
370	0.63		620	24.90	TEST	Pass	Pass	Pass	Fail
380	1.07		630	25.05					
390	2.81		640	25.13					-
400	3.78		650	25.42					
410	3.61		660	25.98					
420	3 28		870	26.75	This is a	FILTER C	ATEGORY:	3	
430	3.23		680	27.87			Max	Test	Delta
440	3.41		690	28.37	T(280-315	6)	0.00	Pass	1.77
450	4.19		700	28.82	T(316-350))	0.00	Pass	8.84
460	5.26		710	29.03	SOLAR U	VA	0.00	Pass	8.84
470	6.45		720	29.05					
480	7.58		730	28.95	AUSTRAL	MATS NAI.	DARDS		
490	8.57		740	28.74		Red	Violet		
500	12.08		750	28.49	FACTOR	1.42	0.24		
510	13 35		760	28.20	This is a	GENERAL	PURPOSE	SUNGLAS	s
520	13.17		770	27.83		PASS	FAIL		
530	11.59		780	27.54					
540 ·	11.46		790	27,25					



O-BZS030701-01-01 (Ray Ban Daddy O)

FIG. 6

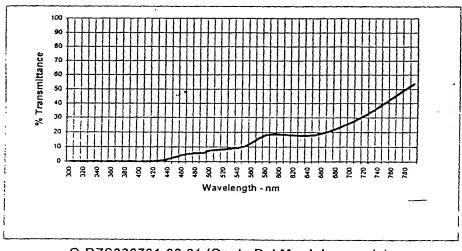
		TRANS	×	y	ANSI Z80.3
luminate	C Photopic	24.30%	0 5425	0 4364	Red Yellow Green D65
luminate	D65	23.97%			TRANS 47.16% 37.12% 15.31% 23.97
luminate	A	29.70%			TEST Pass Pass Pass
luminate	C Scotopic	6.40%			X 39.24 2.32 31.2
Average	Blue Light	0.85%			Y 5.13 25.37 3,32 25,3
JVA		0.01%			Z 0.04 0.26 1.18
JVB		0.00%			x 0,6089 0.3938 0.541
					y 0.3924 0.5620 0.438
ណា	%T		ពពា	%T	Chromiticity Pass Pass Pass
300	0.00		550	20.05	
310	0.00		560	24.55	This is a GENERAL PURPOSE LENS
320	0.00		570	30.46	
330	0.01		580	38.21	CEN 94
340	0.02		590	43.60	. Red Yellow Green Blue
350	0.02		600	44.90	TRANS 48.19% 37.35% 14.95% 12.84
360	0.02		810	46.00	Q 1.93 1.56 0.62 0.54
370	0.04		620	46.28	TEST Pass Pass Fail Fail
380	0.16		630	47.00	
390	0 44		640	48.23	
400	0.70		650	44.91	
410	0 62		660	45.28	
420	0.50		670	48.40	This is a FILTER CATEGORY 2
430	0.51		680	55.47	Max Test Delt
440	0.57		690	64.74	T(280-315) 0.00 Pass 2.40
450	0.73		700	73.63	T(316-350) 0.00 Pass 11.9
460	0.89		710	81.96	SOLAR UVA 0.00 Pass 11.9
470	0.96		720	85.52	
480	1.12		730	88.83	AUSTRALIAN STANDARDS
490	1.62		740	89.54	Red Violet
500	2.88		750	90.06	FACTOR 1.93 0.03
510	3.40		760	90.94	This is a GENERAL PURPOSE SUNGLASS
520	4.76		770	90.55	PASS FAIL
530	9.19		780	91.03	
540	15.54		790	91.27	



O-BZS030701-02-01 (BluBlocker 1870)

FIG. 7

		TRANS	×	y	ANSI Z80	3			
Huminati	e C Photopic	12 83%	0 4465	0 4204		Red	Yellow	Green	D65
Numinati	e D65	12 74%			TRANS	18 45%	16 40%	10 37%	12.749
lluminati	e A	14 34%			TEST	Pass	Pass	Pass	
iluminate	C Scotopic	7 18%			, x		16 43	1.25	14,10
Average	Blue Light	2 58%			Y	201	11.21	2 25	13 45
UVA		0 00%			Z		0 02	0.91	4.06
U∨B		0 00%			×		0.5939	0.2836	0.445
	1				¥		0.4053	0 5096	0 425
am	%T		nm	%T	Chromitic	ity	Pass	Pass	Pass
300	0.00		550	10 46.		·			
310	a aa		560	12.93	This is a	GENERAL	PURPOSE	LENS	
320	0.00		570	15 91					
330	0 00		580	18 08	CEN 94				
340	0.00		590	18 66		Red	Yellow	Green	Blue
350	0.00		600	18.50	TRANS	18.36%	16 47%	10,26%	9.58%
360	0.00		610	18 16	Q	1.44	1,29	0.81	0.75
370	0.00		520	17.89	TEST	Pass	Pass	Pass	Fail
380	0.00		630	17.72					
390	0 00		640	17.78					
400	0.00		650	18.26					
410	0 04		660	19.25					
420	0 23		670	20.68	This is a	FILTER C	ATEGORY 3	3	
430	0 66		680	22.51			Max	Test	Delta
440	163		690	24.44	T(280-315	5)	0.00	Pass	1.27
450	3 07		700	26 52	T(316-350))	0.00	Pass	6.37
460	4 48		710	28.97	SOLAR U	VA	0.00	Pass	6,37
470	5,36		720	31,41					
480	5 72		730	34.13	AUSTRAL	IAN STAND	ARDS		
490	5 89		740	37.26		Red	Violet		
500	7 66		750	40.38	FACTOR	1.42	0.18		
510	7.93		760	43.65	This is a	GENERAL	PURPOSE	SUNGLASS	3 '
520	6 32		770	47,20		PASS	FAIL		-
530	8 77		780	50.53					
540	9.30		790	53.60					

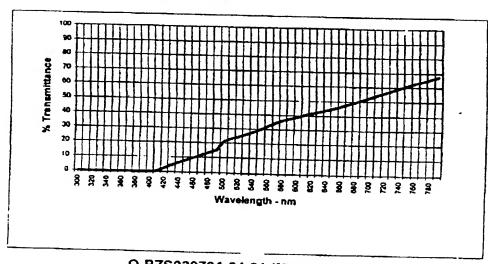


O-BZS030701-03-01 (Costa Del Mar Islamorada)

FIG. 8



Rumina Humina Rumina		TRANS 31 10% 31 01% 33 83% 19 23% 6.83% 0.00%	X 0.4256	y 0.4252		Hed 4 06% Pass 4.50	Yellow 37,10% Pass 36,89 25,35 0.06 0.5921	Green 27.37% Paes 2.98 5.93 2.35 0.2646	065 31.01% 32.20 32.77 10.79 0.4250
am	%1				y		0.4089	0.5268	0 4325
300	0.00		hm	%T	Chromiticity		Pass	Pass	Pass
310	0.00		550	30.04					
320	0.00		560 570	32.33	This is a GE	NERAL	PURPOSE	LENS	
330	0.00		580	34 41	*****				
340	0.00		590	36.23	CEN 94				
350	0.00		800	37.88	Rac	-	Yellow	Green	Blue
360	0.00		610	39.03 40.43	_	.77%	37.21%	27.34%	25.06%
370	0.00		620	41.65		1.35	1.20	88.0	0.81
380	0.00		630	42.82	TEST 9	³ 26.5	Pass	Pass	Pass
390	0.00		640	43.97					
400	0 02		850	45.22					
410	0.56		860	46.70					
420	2.47		870	48.24	This is a FET				
430	4.45		660	49.95	THE IS B PEL	ER CA	TEGORY 2		
440	6.38		690	51.53	T(280-315)		Max	Test	Detta
450	8.20		700	53.10	T(316-350)		0.00	Pass	3.10
460	9.99		710	54.73	SOLAR UVA		0.00	Pass.	15 51
470	11.88		720	56.27	JOON OW		0.00	Pass	15.51
480	13.56		730	57.83	AUSTRALIAN S	74110			
490	15.18		740	59.51					
500	21.03		750	61,06	-	.40	Violet		
510	23.04		760	62 73			0.20 PURPOSE S		
520	24.50		770	64.39		ISS		SUNCLASS	•
\$30	26 19		780	66,01	• •		FAIL		
540	28 02		790	87.58					



O-BZS030701-04-01 (Melavision)

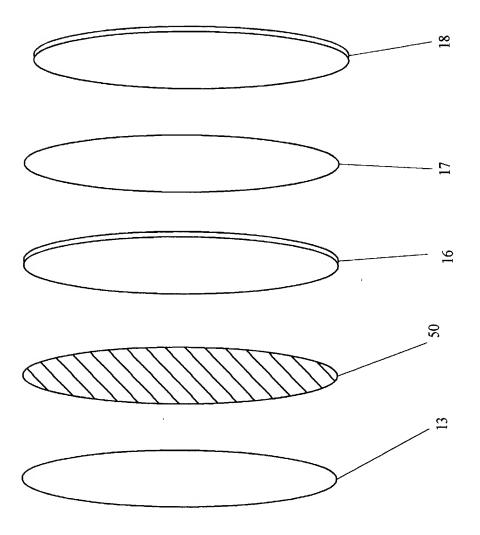


FIG. 10